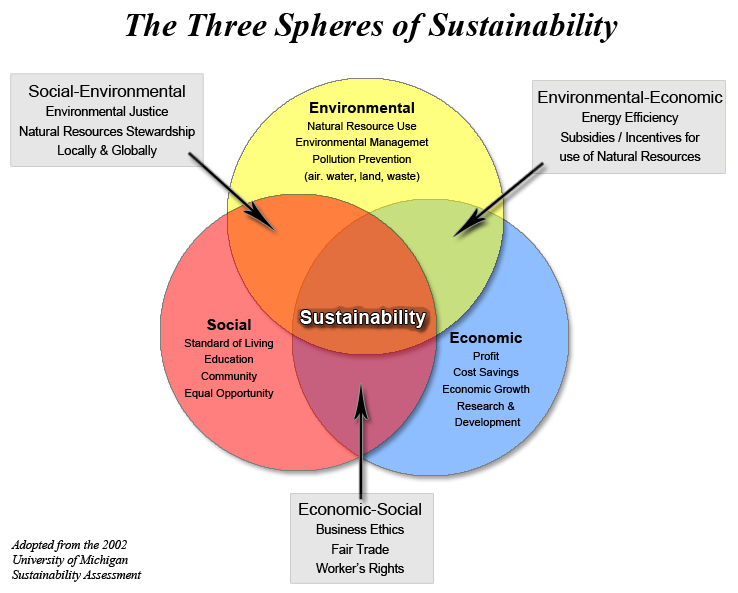
**Name: Paul Hume Date:4/10/12**

**Task 4**

**Devise strategies for incorporating sustainability into an ICT project**

**2.3. Establish, regularly review and improve key performance indicators (KPI) on sustainability performance**

**2.4. Incorporate innovative planning and design rules for ICT projects which foster sustainability and environmental best practice** 

**Read:** **Sustainable Development Key Performance Indicators**

<http://www.sd-m.de/files/SD-KPI_Standard_2010-2014_V12e.pdf>

1. **Explain the most important sustainability challenges at top management level,**
2. **Explain a minimum reporting standard of sustainability for annual reports**
3. **Explain why Sustainable Development needs integration into mainstream investment.**

Innovative planning and design

<http://www.greenit.net/solutions_enterprise.html>

According to a May 2007 report from Cisco, packet voice networking costs only 20 to 30 percent of an equivalent circuit-based voice network. Unified messaging services allows the consolidation of fax machines, video conference rooms and voicemail systems into a single platform, with infrastructure cost savings of as much as 40%.

Lyra Research states that usage of converged network copier-printers products allows equipment consolidation, reducing the number of output devices in a typical corporation by up to 60%. In addition, IT departments are freed from supporting diverse types of printers. Hewlett-Packard‘s Neoware thin client computing solutions announced that its devices can help companies reduce computing-related energy costs by up to 90 percent.



Create a design for a simple LAN of 20 seats that embodies some of these IT innovations in providing computing and printing.

**Hardware**

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Cost** | **URL** | **Average power**  **E.g. browser open** |
| Switch 24 Port TP Link TL1024d GigaBit | $74.50 | www.digistar.com.au | Idle 7 -8 watts (2 thin clients attached) |
| Thin Client x 20 Wyse SE3215 | 20 x $40 = $800 | www.partstore.com | 9 watts (each) |
| Modem/router Netgear | $176 | www.pcworld.idg.com.au | 6 watts + 1watt for dongle |
| Printer Lexmark Z12 | $25 | www.ebay.com.au | Idle 8 -16 watts |
| Monitor hp compact FP5315 x 2 | $25 | www.ebay.com | 18 watts (each) |
|  |  |  |  |
|  |  |  |  |

**Key Performance Indicators**

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **SD-KPI 1: Energy / greenhouse gas efficiency of production / products in use**  **(tons CO2)** | **SD-KPI 2: Proportion of products with “Design for Environment” / Eco-Label (√)or(x)** | **SD-KPI 3: Emissions of (hazardous) waste and toxic materials**  **Yes or No** |
| Server | .045x24x365x6.8956/10000=0.2718 | No | No |
| Switch 24 Port | .008x24x365x6.8956/10000=0.0489 | YES – Eco Stated | YES - ROHS |
| Thin Client x 20 | Total for each 0.009x8x262x6.8956/10000=0.0130  Total x20 = 0.25816 | Wise Y210 – No  Ultra Think - No | Wise Y210 – No  Ultra Think - Yes |
| Modem/router | 0.007x24x365x6.8956/10000=0.042283 | No | No |
| Printer | 0.016x24x365x6.8956/10000=0.096648 | No |  |
| Monitor | 0.018x8x262x6.89560/10000=0.026015(Each) | Yes Energy star sticker claim on back of device | No |